



# Solar Photovoltaic Case Study

**Information Technology**  
481 West Paseo Redondo

## **TECHNICAL SPECIFICATIONS:**

- Installed July 2009.
- 34.65 kW DC; 27.72 kW AC.
- 165 210W KD210GX-LP Kyocera polycrystalline PV panels.
- 1 Satcon Powergate PVS-30 kW inverter.
- Greenhouse gas reductions-approximately 45 metric tons CO<sub>2</sub>/year.



## **PROJECT DESCRIPTION:**

- Non-penetrating ballasted roof mounted system utilizing Tucson-built Schletter mounting system.
- Facility houses the City's Information Technology Department with large computer electrical loads.
- Output of 53,064 kWh per year is approximately 2% of the building load.
- SPG Solar, Inc. guarantees electrical output for 5 years and provides maintenance services for 10 years.
- System production viewable on Fat Spaniel's website at <http://tiny.cc/RKxTh>.

## **FINANCIAL DETAILS:**

- Project paid for through an allocation of Clean Renewable Energy Bonds (CREBs).
- 13 year payback period at 0% interest.
- TEP rebates and savings to pay off bonds.
- Total design and installation costs - \$312,699.



- For additional information go to: <http://www.tucsonaz.gov/energy/>